

**AMENDMENTS TO THE SPECIFICATION**

Please replace the paragraph on the Specification Cover Sheet with the following amended paragraph:

TO ALL WHOM IT MAY CONCERN:

I, Mark J. Pavicic, a resident of Fargo, North Dakota, and a Citizen of the United States of America, ~~has~~ have invented certain new and useful improvements in a

**SYSTEM FOR DIGITIZING TRANSIENT SIGNALS**

of which the following is a specification.

Please replace paragraph [019] with the following amended paragraph:

**[019]** Design of a digitizer can start with any of the components involved in the trade offs. A digital signal processor (DSP) can be useful to perform not only rapid processing of the digitized data that is the result of A to D conversions but also to provide intelligent control over one or more functions or parameters leading to output of the digitized data. In particular, a DSP can be made with CMOS or bi-CMOS technology and ~~that~~ capacitor arrays of the kind that have been used to capture analog samples at high sampling rates can also be realized in CMOS or bi-CMOS. Thus, with CMOS or bi-CMOS (or any other chip-making methodology that permits realization of the essential components on a common substrate), it becomes possible to design a chip in which the DSP and the analog sample storage might be closely coordinated

Please replace paragraph [086] with the following amended paragraph:

**[086]** The ability ~~of the~~ of the present device to sample waveforms at a high rate and deliver highly precise digital data can, as noted, be used in fluorometers to capture fluorescence decay